

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Daniel C. Guterman et al.
Title: Novel Multi-State Memory
Application No.: Unassigned Filing Date: Herewith
Examiner: Unassigned Group Art Unit: Unassigned
Docket No.: SNDK.138USM Conf. No.: Unassigned

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant(s) call(s) the documents listed on the enclosed Form PTO-1449 to the Examiner's attention in this patent application.

- Copies of the documents listed on the accompanying Form PTO-1449 are enclosed.
- Copies of the documents listed on the accompanying Form PTO-1449 that are not enclosed were previously submitted in Application No. 10/013,592, from which this Application claims an earlier effective filing date.
- This application has a filing date after June 30, 2003. Copies of the U.S. Patent(s) and U.S. Published Patent Application(s) documents listed on the accompanying Form PTO-1449 are not enclosed.

Citation of these documents shall not be construed as (1) an admission that the documents are prior art with respect to the invention or inventions claimed in this application, (2) a representation that a search has been made (other than as indicated by any cited document), or

Attorney Docket No.: SNDK.138USM

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-1-

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(3) an admission that the cited information is, or is considered to be, material to patentability as defined in § 1.56(b).

This information disclosure statement is submitted under 37 C.F.R. § 1.97(b) and consequently no fee should be required. The Commissioner is authorized, however, to charge any fee that may be required, or to credit any overpayment, against Deposit Account No. 502664. This form is being submitted in duplicate.

**EXPRESS MAIL
LABEL NO:**

EV 437668010 US

Respectfully submitted,


Gerald P. Parsons
Reg. No. 24,486

March 24, 2004
Date

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Attorney Docket No.: SNDK.138USM

Express Mail No.: EV 437668010 US

-2-
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U.S. Department of Commerce, Patent and Trademark			Atty. Docket No.			Application No.		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			SNDK.138USM			Unassigned		
			Applicant(s)			Conf. No.		
(Use several sheets if necessary)			Guterman et al.			Unassigneddq		
			Filing Date			Group		
			Herewith			Unassigned		
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
/VN/		6538923	3/25/03	Parker				
U.S. Published Patent Application Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
Examiner	/Viet Nguyen/ (07/01/2008)	Date Considered			07/01/2008			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

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FORM PT01449
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
M-10277-3CSERIAL NO.
UNASSIGNED

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT

Hock C. So and Sau C. Wong

FILED

October 18, 2001

GROUP

Not Assigned

U. S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUB CLASS	FILING DATE	
/VN/		A1	4	4	6	0	9	8	2		7/17/1984	Gee et al.			
		A2	4	6	1	2	6	3	0		9/16/1986	Rosier			
		A3	4	9	6	4	0	7	9		10/16/1990	Devin			
		A4	5	1	5	1	9	0	6		9/29/1992	Sawada			
		A5	5	1	5	7	6	2	9		10/10/1992	Sato et al.			
		A6	5	2	3	9	5	0	5		8/24/1993	Fazio et al.			
		A7	5	3	9	4	3	5	9		2/28/1995	Kowalski			
		A8	5	5	2	3	9	7	2		6/04/1996	Rashid et al.			
		A9	5	5	3	2	9	6	2		7/02/1996	Auclair et al.			
		A10	5	5	8	3	8	1	2		12/10/1996	Harari			
		A11	5	6	5	2	7	2	0		7/29/1997	Aulas et al.			
		A12	5	6	8	9	4	6	5		11/1997	Sukegawa et al.			
		A13	5	7	5	1	6	3	9		5/1998	Ohsawa			
		A14	5	7	6	1	1	2	5		6/02/1998	Himeno			
		A15	5	8	3	5	4	1	3		11/10/1998	Hurter et al.			
/VN/		A16	5	9	0	9	4	4	9		6/01/1999	So et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUB CLASS	TRANS.? (YES/NO)	
/VN/		B1	WO	9	0	1	2	4	0	0	10/18/1999	W.I.P.O.			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

/VN/ C1 Lee, E.K.F., et al., "Error Correction Technique For Multivalued MOS Memory," Electronic Letters, Vol. 27, No. 15 (July 18, 1991) pps. 1321-1323

EXAMINER	/Viet Nguyen/ (07/01/2008)	DATE CONSIDERED	07/01/2008
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH: /VN/

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FORM PT01449 (REV. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. HARI.026USS	SERIAL NO. UNASSIGNED
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		APPLICANT Daniel L. Auclair et al.	
		FILED HEREWITH	GROUP 2786

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

EXAMINER	/Viet Nguyen/ (07/01/2008)	DATE CONSIDERED	07/01/2008
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FORM PT01449
(REV. 8-83)U. S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

HARI.026USS

SERIAL NO.

09/431,078

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT

Daniel L. Auclair et al.

FILED

November 9, 1999

GROUP
3742

U. S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
/VN/	A1	4	2	1	8	7	6	4	1980	Furuta et al.			
	A2	4	2	5	3	0	5	9	1981	Bell et al.			
	A3	4	4	6	0	9	8	2	1984	Gee et al.			
	A4	4	6	1	2	6	3	0	1986	Rosier			
	A5	4	7	3	3	3	9	4	1988	Giebel			
	A6	4	7	6	3	3	0	5	1988	Kuo			
	A7	4	7	7	9	2	7	2	1988	Kohda et al.			
	A8	4	7	9	9	1	9	5	1989	Iwahashi et al.			
	A9	4	8	0	9	2	3	1	1989	Shannon et al.			
	A10	5	1	2	2	9	8	5	1992	Santin			
	A11	5	1	3	2	9	3	5	1992	Ashmore, Jr.			
	A12	5	1	5	1	9	0	6	1992	Sawada			
	A13	5	1	5	7	6	2	9	1992	Sato et al.			
	A14	5	1	7	2	3	3	8	1992	Mehrotra et al.			
	A15	5	2	0	0	9	2	2	1993	Rao			
	A16	5	2	3	9	5	0	5	1993	Fazio et al.			
	A17	5	2	6	2	9	8	4	1993	Noguchi et al.			
/VN/	A18	5	2	7	8	7	9	4	1994	Tanaka et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS.? (YES/NO)

EXAMINER

/Viet Nguyen/ (07/01/2008)

DATE CONSIDERED

07/01/2008

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**FORM PT01449
(REV. 8-83)**

**U. S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE**

ATTY. DOCKET NO.
HARI.026USS

SERIAL NO.
09/437078

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT

FILED
November 9, 1999

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November 9, 1999

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3742

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

EXAMINER /Viet Nguyen/ (07/01/2008)	DATE CONSIDERED 07/01/2008
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

FORM PT01449 (REV. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. HARI.026US3	SERIAL NO. 09/437,078
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		APPLICANT Daniel L. Auclair et al.	
		FILED November 9, 1999	GROUP 3742

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

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		07/01/2008

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

Notice of References Cited		Application No. 09/437,078	Applicant(s) Auclair et al.
		Examiner Emmanuel L. Moise	Group Art Unit 2784

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
A	5,341,334	8/1994	Maruyama	365	189.11
B	5,675,537	8/1994	Bill et al.	365	185.22
C	5,703,506	12/1997	Shook et al.	327	87
D	5,717,632	2/1998	Richart et al.	365	185.01
E					
F					
G					
H					
I					
J					
K					
L					
M					

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
N						
O						
P						
Q						
R						
S						
T						

NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
U		
V		
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X		

Sheet 1 of 1

U.S. Department of Commerce, Patent and Trademark Office				Atty Docket No.	Application No.		
				M-10202-5C US	09/437,078		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Applicants			
(Use several sheets if necessary)				Daniel L. Auclair et al.			
				Filing Date	Group		
				November 9, 1999	2133		
U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
/VN/	1	4,827,450	May 2, 1989	Kowalski			
/VN/	2	5,070,032	Dec. 3, 1991	Yuan et al.			
/VN/	3	5,200,959	Apr. 6, 1993	Gross et al.			
	4	5,270,979	Dec. 14, 1993	Harari et al.			
Foreign Patent Documents							
		Document	Date	Country	Class	Subclass	Translation
							Yes
							No
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
Examiner	/Viet Nguyen/ (07/01/2008)	Date Considered	07/01/2008				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.							

Express Mail No.: EV259164755US

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U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Application No.
		M-10249-14P US	10/013,592
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant(s)	Confirmation No.
(Use several sheets if necessary)		Daniel C. Guterman et al.	1251
		Filing Date	Art Unit Group
		November 13, 2001	2818

U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
/VN/	1 5,043,940	Aug. 27, 1991	Harari			
	2 5,172,338	Dec. 15, 1992	Mehrotra et al.			
	3 5,270,979	Dec. 14, 1993	Harari et al.			
	4 5,313,421	May 17, 1994	Guterman et al.			
	5 5,315,541	May 24, 1994	Harari et al.			
	6 5,430,859	Jul. 4, 1995	Norman et al.			
	7 5,434,825	Jul. 18, 1995	Harari			
	8 5,453,955	Sep. 26, 1995	Sakui et al.			
	9 5,541,886	Jul. 30, 1996	Hasbun			
	10 5,546,351	Aug. 13, 1996	Tanaka et al.			
	11 5,602,987	Feb. 11, 1997	Harari et al.			
	12 5,629,892	May 13, 1997	Tang			
	13 5,687,114	Nov. 11, 1997	Khan			
/VN/	14 6,317,363 B1	Nov. 13, 2001	Guterman et al.			

Foreign Patent Documents

		Document	Date	Country	Class	Subclass	Yes	No
/VN/	15	JP 7287984 A	1995 Jan. 31	Japan			Abstract	X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner /Viet Nguyen/ (07/01/2008) Date Considered 07/01/2008

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

U.S. Department of Commerce, Patent and Trademark Office

Atty Docket No.

Application No.

SNDK-138USE
formerly (M-10249-14P US)

10/013,592

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicants

Confirmation No.

(Use several sheets if necessary)

Daniel C. Guterman et al.

1251

Filing Date

Art Unit Group

November 13, 2001

2818

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
/VN/	1	Re. 32,401	4/1987	Beilstein, Jr. et al.			
	2	4,074,304	2/1978	Shiba			
	3	4,151,020	4/1979	McElroy			
	4	4,151,021	4/1979	McElroy			
	5	4,184,207	1/1980	McElroy			
	6	4,202,044	5/1980	Beilstein, Jr. et al.			
	7	4,271,421	6/1981	McElroy			
	8	4,302,766	11/1981	Guterman et al.			
	9	4,331,968	5/1982	Goeney, Jr. et al.			
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/VN/	11	4,456,971	6/1984	Fukuda et al.			

Foreign Patent Documents

							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
/VN/	12	0373830	6/1990	EP				X
/VN/	13	0725403A1	8/1996	EP			X	
/VN/	14	6-1181168	8/1986	Japan				X
/VN/	15	1-304784	12/1989	Japan				X
/VN/	16	2-360	1/1990	Japan				X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

/VN/	17	K. Naruke et al., "A New Flash-Erase EEPROM Cell with A Sidewall Select-Gate On Its Source Side", IEDM 89-603, IEEE (1989), pp. 603-606.
/VN/	18	M. Kamiya et al., "EPROM Cell with High Gate Injection Efficiency", IEDM 82-741, IEEE (1982), p. 741-744.
/VN/	19	J. Van Houdt, et al., "A 5-Volt-Only Fast-Programmable Flash EEPROM Cell with A Double Polysilicon Split-Gate Structure", Interuniversity Microelectronics Center (Feb. 1991).

Examiner /Viet Nguyen/ (07/01/2008) Date Considered 07/01/2008

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U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Application No.
		SNDK.138USE formerly (M-10249-14P US)	10/013,592
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicants	Confirmation No.
		Daniel C. Guterman et al.	1251
		Filing Date	Art Unit Group
		November 13, 2001	2818

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
/VN/	20	4,462,090	7/1984	Iizuka			
/VN/	21	4,488,265	12/1984	Kotecha			
	22	4,561,004	12/1985	Kuo et al.			
	23	4,575,925	3/1986	Kanbara et al.			
	24	4,583,201	4/1986	Bertin et al.			
	25	4,616,402	10/1986	Mori			
	26	4,622,656	11/1986	Kamiya et al.			
	27	4,652,897	3/1987	Okuyama et al.			
	28	4,663,827	5/1987	Nakahara			
	29	4,677,736	7/1987	Brown			
/VN/	30	4,794,565	12/1988	Wu et al.			

Foreign Patent Documents

		Document	Date	Country	Class	Subclass	Translation
/VN/	31	WO 97/22123	6/1997	WIPO			X
/VN/	32	WO 90/12400	10/1990	WIPO			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

/VN/	33	Yale Ma, et al. "A Dual-bit Split-Gate EEPROM (DSG) Cell in Contactless Array for Single-Vcc High Density Flash Memories", IEDM 94-57, IEEE (1994), pp. 57-60.
/VN/	34	G.S. Alberts et al., "Multi-Bit Storage FET EROM Cell", G.S. IBM Technical Disclosure Bulletin, vol. 24, No. 7A (Dec.1981), pp. 3311-3314.
/VN/	35	Takeshi Nakayama, "A 5-V-only One-Transistor 256K EEPROM with Page-Mode Erase", IEEE (Aug. 1989), vol. 24, No. 4, pp. 911-915.

Examiner /Viet Nguyen/ (07/01/2008) Date Considered 07/01/2008

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		Daniel C. Guterman et al.	1251
		Filing Date	Art Unit Group
		November 13, 2001	2818

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
/VN/	36	4,803,529	2/1989	Masuoka			
	37	4,805,142	2/1989	Bertin et al.			
	38	4,811,285	3/1989	Walker et al.			
	39	4,811,294	3/1989	Kobayashi et al.			
	40	4,821,236	4/1989	Hayashi et al.			
	41	4,862,418	8/1989	Cuppens et al.			
	42	4,943,962	7/1990	Imamiya et al.			
	43	4,990,979	2/1991	Otto			
	44	4,997,781	3/1991	Tigelaar			
↓	45	5,011,787	4/1991	Jeuch			
/VN/	46	5,017,515	5/1991	Gill			

Foreign Patent Documents

							Translation	
		Document	Date	Country	Class	Subclass	Yes	No

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

/VN/	47	Mike McConnell, et al., "An Experimental 4-Mb Flash EEPROM with Sector Erase", IEEE (Apr. 1991), vol. 26, No. 4, pp. 484-489.
/VN/	48	Masaki Momodomi, et al., "A 4-Mb Flash EEPROM with Tight Programmed V.sub.t Distribution", IEEE (Apr. 1991), vol. 26, No. 4, pp. 492-495.
/VN/	49	Fujio Masuoka, et al., "A 256-kbit Flash E.sup.2 PROM Using Triple-Polysilicon Technology", IEEE (Aug. 1987)

Examiner /Viet Nguyen/ (07/01/2008) Date Considered 07/01/2008

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U.S. Department of Commerce, Patent and Trademark Office				Atty Docket No.	Application No.			
				SNDK.138USE formerly (M-10249-14P US)	10/013,592			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicants	Confirmation No.			
				Daniel C. Guterman et al.	1251			
				Filing Date	Art Unit Group			
				November 13, 2001	2818			
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
/VN/	50	5,028,553	7/1991	Esquivel et al.				
	51	5,029,130	7/1991	Yeh				
	52	5,045,488	9/1991	Yeh				
	53	5,057,886	10/1991	Riemenschneider et al.				
	54	5,067,108	11/1991	Jenq				
	55	5,070,032	12/1991	Yuan et al.				
	56	5,081,054	1/1992	Wu et al.				
	57	5,081,056	1/1992	Mazzali et al.				
	58	5,095,344	3/1992	Harari				
↓	59	5,147,816	9/1992	Gill et al.				
/VN/	60	5,204,841	4/1993	Chappell et al.				
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
/VN/	61	Dumitru Cioaca, et al., "A Million-Cycle 256K EEPROM", IEEE (Oct. 1987), vol. SC-22, No. 5, pp. 684-692.						
/VN/	62	Cristiano Calligaro, et al., "A New Serial Sensing Approach for Multistorage Non-Volatile Memories", IEEE (1995), pp. 21-26.						
/VN/	63	Min-hwa Chi, et al., "Multi-level Flash/EPROM Memories: New Self-convergent Programming Methods for Low-voltage Applications", IEDM 95-271, IEEE (1995), pp. 271-274.						
Examiner	/Viet Nguyen/ (07/01/2008)		Date Considered	07/01/2008				

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U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Application No.
		SNDK-138USE formerly (M-10249-14P US)	10/013,592
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicants	Confirmation No.
(Use several sheets if necessary)		Daniel C. Guterman et al.	1251
		Filing Date	Art Unit Group
		November 13, 2001	2818

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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
/VN/	64	5,218,569	6/1993	Banks			
/VN/	65	5,225,361	7/1993	Kakiuchi et al.			
/VN/	66	5,247,485	9/1993	Ide			
/VN/	67	5,264,384	11/1993	Kaya et al.			
/VN/	68	5,278,439	1/1994	Ma et al.			
/VN/	69	5,279,982	1/1994	Crotti			
/VN/	70	5,280,446	1/1994	Ma et al.			
/VN/	71	5,284,784	2/1994	Manley			
/VN/	72	5,297,148	3/1994	Harari et al.			
/VN/	73	5,323,355	6/1994	Kato			
/VN/	74	5,355,347	10/1994	Cioaca			

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							Translation	
		Document	Date	Country	Class	Subclass	Yes	No

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

/VN/	75	International Search Results & Annex (Communication relating to PCT/US98/15657). 1998

Examiner /Viet Nguyen/ (03/22/2008) Date Considered 03/22/2008

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Application No.
		SNDK.138USE formerly (M-10249-14P US)	10/013,592
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicants	Confirmation No.
		Daniel C. Guterman et al.	1251
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/VN/	76	5,377,147	12/1994	Merchant et al.			
	77	5,378,643	1/1995	Ajika et al.			
	78	5,396,468	3/1995	Harari et al.			
	79	5,412,600	5/1995	Nakajima			
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	81	5,468,663	11/1995	Bertin et al.			
	82	5,491,657	2/1996	Haddad et al.			
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/VN/	86	5,656,840	8/1997	Yang			

Foreign Patent Documents

							Translation	
		Document	Date	Country	Class	Subclass	Yes	No

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner /Viet Nguyen/ (07/01/2008) Date Considered 07/01/2008

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U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Application No.
		SNDK.138USE formerly (M-10249-14P US)	10/013,592
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicants	Confirmation No.
		Daniel C. Guterman et al.	1251
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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
/VN/	87	5,675,537	10/1997	Bill et al.			
	88	5,708,285	1/1998	Otani et al.			
	89	5,712,180	1/1998	Guterman et al.			
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	94	5,818,757	10/1998	So et al.			
	95	5,867,430	2/1999	Chen et al.			
▼	96	5,894,437	4/1999	Chang et al.			
/VN/	97	5,956,742	9/1999	Fandrich et al.			

Foreign Patent Documents

								Translation	
		Document	Date	Country	Class	Subclass		Yes	No

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner /Viet Nguyen/ (07/01/2008) Date Considered 07/01/2008

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Examiner /Viet Nguyen/ (07/01/2008) **Date Considered** 07/01/2008

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FORM PTO-892	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Serial No.	GROUP ART UNIT	ATTACHMENT TO PAPER NUMBER	
NOTICE OF REFERENCES CITED		09/113,800	2784		7
		APPLICANT(S)			
		Auclair et al.			

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*		DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/VN	A	5,270,551	12/14/93	Kamimura et al	250	515.1	02/13/91
	B	4,962,322	10/09/90	Chapman	327	581	
	C	4,937,787	06/26/90	Kobatake	365	185.22	
	D	4,733,394	03/22/88	Giebel	365	201	
	D	4,703,453	10/27/87	Shinoda et al.	365	104	
V	E	4,612,630	09/16/86	Rosier	365	201	
/VN	F	4,139,911	02/13/79	Sciulli et al.	365	207	
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*		DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUB-CLASS	PERTINENT SHTS. DWG	PP. SPEC
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	M								
	N								
	O								

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER

David Ton

03/04/99

Form 892BMR2107

* A copy of this reference is not being furnished with this office action.
See Manual of Patent Examining Procedure, section 707.05(a).)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

FORM PT01449
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.
HARI.026US4SERIAL NO.
09/113,800APPLICANT
DANIEL L. AUCLAIR et al.FILED
July 8, 1998GROUP
2784

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*EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUB CLASS	FILING DATE
DT	A1	4	2	1	8	7	6	4		1980	Furuta et al.	365	222	
DT	A2	4	2	5	3	0	5	9		1981	Bell et al.	714	721	
DT	A3	4	4	6	0	9	8	2		1984	Gee et al.	365	185.6	
DT	A4	4	6	1	2	6	3	0		1986	Rosier	365	201	
DT	A5	4	7	3	3	3	9	4		1988	Giebel	714	711	
DT	A6	4	7	6	3	3	0	5		1988	Kuo	365	185.27	
DT	A7	4	7	7	9	2	7	2		1988	Kohda et al.	714	721	
DT	A8	4	7	9	9	1	9	5		1989	Iwahashi et al.	365	185.27	
DT	A9	4	8	0	9	2	3	1		1989	Shannon et al.	365	201	
DT	A10	5	1	2	2	9	8	5		1992	Santin	365	185.19	
DT	A11	5	1	3	2	9	3	5		1992	Ashmore, Jr.	365	185.19	
DT	A12	5	1	5	1	9	0	6		1992	Sawada	714	805	
DT	A13	5	1	5	7	6	2	9		1992	Sato et al.	365	201	
DT	A14	5	1	7	2	3	3	8		1992	Mehrotra et al.	365	185.03	
DT	A15	5	2	0	0	9	2	2		1993	Rao	365	185.09	
DT	A16	5	2	3	9	5	0	5		1993	Fazio et al.	365	185.11	
DT	A17	5	2	6	2	9	8	4		1993	Noguchi et al.	365	185.03	
DT	A18	5	2	7	8	7	9	4		1994	Tanaka et al.	365	185.7	

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS.? (YES/NO)

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DATE CONSIDERED

11/30/99

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

ORM PT01449 REV. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. HARI:026US4	SERIAL NO. 09/113,800
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		APPLICANT DANIEL L. AUCLAIR et al.	
		FILED July 8, 1998	GROUP 2784

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EXAMINER

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DATE CONSIDERED

11/30/99

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FORM PT01449
(REV. 8-83).U. S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

ATTY. DOCKET NO.	SERIAL NO.
HARI-2602	Please assi
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Daniel L. Auclair, et al.	
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U. S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUB CLASS	FILING DATE
ZB	A	5	2	3	9	5	0	5		8/24/93	Fazio, et al.			
ZB	B	5	1	5	1	9	0	6		9/29/92	Sawada			
ZB	C	4	7	9	9	1	9	5		1/17/89	Iwahashi, et al.			
ZB	D	4	7	3	3	3	9	4		3/22/88	Giebel			
ZB	E	4	4	6	0	9	8	2		7/17/84	Gee, et al.			
ZB	F	4	2	5	3	0	5	9		2/24/81	Bell, et al.			
ZB	G	4	8	0	9	2	3	1		2/28/89	Shannon, et al.			
ZB	H	4	6	1	2	6	3	0		9/16/86	Rosier			
ZB	I	4	7	7	9	2	7	2		10/18/88	Kohda, et al.			
ZB	J	5	1	7	2	3	3	8		12/15/92	Mehrotra, et al.			

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS. (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

EXAMINER

ZB E.R.

DATE CONSIDERED

9-15-95

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

FORM PTO-892 (REV. 2-92)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	SERIAL NO.	GROUP ART UNIT	ATTACHMENT TO PAPER NUMBER
NOTICE OF REFERENCES CITED		08/406,671	2306	5
		APPLICANT(S)	Aulclair et al	

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	DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
✓	A 5122985	6/92	Sentin	365	185	4/16/90
✓	B 5132935	7/92	Ashmore, Jr.	365	185	4/16/90
✓	C 5313427	5/94	Schreck et al	365	185	9/20/91
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUB-CLASS	PERTINENT SHTS. DWG	PP. SPEC.
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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	ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

FORM PTO-892 (REV. 2-92)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		SERIAL NO.	GROUP ART UNIT	ATTACHMENT TO PAPER NUMBER		
NOTICE OF REFERENCES CITED				08/406,677	2306	8		
				APPLICANT(S)	Auclair et al.			
U.S. PATENT DOCUMENTS								
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A	5 157 629	10/92	Sato et al.		365	201		
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FOREIGN PATENT DOCUMENTS								
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1/886 A 30 Sheet 1 of 1

FORM PTO1449 (REV. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. HARI-2600	SERIAL NO. NOT ASSIGNED 86603
 INFORMATION DISCLOSURE CITATION <small>(Use several sheets if necessary)</small> 10 20 1992		APPLICANT DANIEL L. AUCLAIR ET AL	
		FILED May 20, 1992	GROUP NOT ASSIGNED 2511

U.S. PATENT DOCUMENTS

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

EXAMINER	DATE CONSIDERED
Phillip Valey / Popk	124/94

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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TO SEPARATE, HOLD TOP AND BOTTOM EDGES, SNAP-APART AND DISCARD CARBON

FORM PTO-892 (REV. 2-92)			U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		SERIAL NO.	GROUP ART UNIT	ATTACHMENT TO PAPER NUMBER	
NOTICE OF REFERENCES CITED					886030	2511		
					APPLICANT(S)		Auclair et al	
U.S. PATENT DOCUMENTS								
*	DOCUMENT NO.	DATE	NAME		CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE	
✓ A	4 612 630	9/1986	Rosier		365	201		
✓ B	4 779 272	10/1988	Kchida et al		365	201X		
✓ C	5 172 338	12/1992	Mehrotra et al		365	185	4/11/96	
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FOREIGN PATENT DOCUMENTS								
*	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUB-CLASS	PERTINENT SHTS. DWG. PP. SPEC.	
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Popak	2/3/94							
A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, section 707.05 (a).)								
ALL REFERENCES CONSISTENT EXCEPT WHERE IT IS NOT THROUGH /VN/								

U.S. Department of Commerce, Patent and Trademark Office

A Docket No.

Serial No.

M-3115-1P US

Unknown

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicants

(Use several sheets if necessary)

Hock C. So and Sau C. Wong

Filing Date

Group

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Unknown

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
DL	AA	4,964,079	10/16/90	Devin	365	168	
	AB	5,689,465	11/97	Sukegawa et al.	371	10	
	AC	5,751,639	5/98	Ohsawa	365	227	
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Foreign Patent Documents

							Translation	
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		AP						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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David Yau

Date Considered

7/19

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Notice of References CitedApplication No.
09/200,220

Applicant(s)

SO ET AL.

Examiner

David Lam

Group Art Unit

2818

Page 1 of 1

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*	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
A	5,761,125	6/2/98	Himeno	365	185.24
X B	5,909,449	6/1/99	So et al.	371	21.4
C					
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*	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
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NON-PATENT DOCUMENTS

*	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
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Application/Control No.

09/680,797

Applicant(s)/Patent Under
Reexamination
SO ET AL

Examiner

David Lam

Art Unit

2818

Page 1 of 1

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FOREIGN PATENT DOCUMENTS

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NON-PATENT DOCUMENTS

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*A copy of this reference is not being furnished with this Office action. (See Manual of Patent Examining Procedure, Section 707.05(a).)

**APS encompasses any electronic search i.e. text, image, and Commercial Databases.

U.S. Patent and Trademark Office

PTO-892 (Rev. 03-98)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

MP101449
V. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
HARI176US2SERIAL NO.
UNASSIGNED

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT

Hock C. So and Sau C. Wong

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U. S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUB CLASS	FILING DATE
DL	A1	4	4	6	0	9	8	2		7/17/1984	Gee et al.	—	—	
	A2	4	6	1	2	6	3	0		9/16/1986	Rosier	—	—	
	A3	4	9	6	4	0	7	9		10/16/1990	Devin	365	168	
	A4	5	1	5	1	9	0	6		9/29/1992	Sawada	—	—	UC929 U.S. 5,680,799, PTO 09/09/99
	A5	5	1	5	7	6	2	9		10/10/1992	Sato et al.	—	—	
	A6	5	2	3	9	5	0	5		8/24/1993	Fazio et al.	—	—	
	A7	5	3	9	4	3	5	9		2/28/1995	Kowalski	—	—	
	A8	5	5	2	3	9	7	2		6/04/1996	Rashid et al.	—	—	
	A9	5	5	3	2	9	6	2		7/02/1996	Auclair et al.	—	—	
	A10	5	5	8	3	8	1	2		12/10/1996	Harari	—	—	
	A11	5	6	5	2	7	2	0		7/29/1997	Aulas et al.	—	—	
	A12	5	6	8	9	4	6	5		11/1997	Sukegawa et al.	371	10	
	A13	5	7	5	1	6	3	9		5/1998	Ohsawa	—	—	
	A14	5	7	6	1	1	2	5		6/02/1998	Himeno	365	185.24	
	A15	5	8	3	5	4	1	3		11/10/1998	Hurter et al.	—	—	
DL	A16	5	9	0	9	4	4	9		6/01/1999	So et al.	371	21.4	

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		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUB CLASS	TRANS. (YES/NO)
NOT FOUND	B1	WO	9	0	1	2	4	0	0	10/18/199	W. I. P. O.	—	—	
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NOT FOUND	C1	Lee, E.K.F., et al., "Error Correction Technique For Multivalued MOS Memory," <u>Electronic Letters</u> , Vol. 27 No. 15 (July 18, 1991) pps. 1321-1323

EXAMINER	DATE CONSIDERED
<i>Dal Yoo</i>	01/01

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MP&P 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

U.S. Department of Commerce, Patent and Trademark Office				Atty Docket No.	Serial No.		
				M-10277-2C US	09/680,797		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicant(s)			
				Hock C. So, Sau C. Wong			
				Filing Date	Group		
				October 6, 2000	2818		
U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
Foreign Patent Documents							
		Document	Date	Country	Class	Subclass	Translation
DL	B1	WO9012400	10/18/90	PCT	—	—	Yes
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
DL	C1	Lee, E.K.F., et al., (July 18, 1991) "Error Correction Technique for Multivalued MOS Memory," <i>Electronic Letters</i> , 27(15):1321-1323					
Examiner	<i>Dai Yan</i>		Date Considered	5/01			
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Notice of References Cited

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Applicant(s)/Patent Under
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Page 1 of 1

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	B	US- -				
	C	US- -				
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	G	US- -				
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	K	US- -				
	L	US- -				
	M	US- -				

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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	P	- -				
	Q	- -				
	R	- -				
	S	- -				
	T	- -				

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

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